Appl. No. 10/565,331 Amdt. dated October 27, 2008 Reply to Office Action dated April 29, 2008

## Amendment to the Claims

## Listing of Claims:

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1. (Currently amended) A compound having the formula:

2 Ab-G-I-T 3 wherein 4 Ab is an antibody; 5 G is an intact glycosyl linking group covalently joining Ab to L; 6 L is a bond or a spacer moiety covalently joining G to T; and 7 T is a toxin, wherein 8 said spacer moiety is a member selected from substituted or unsubstituted alkyl, substituted or 9 unsubstituted heteroalkyl and substituted or unsubstituted arvl moieties. 1 2. (Canceled) 3 (Currently amended) The compound according to claim 1 2, wherein said spacer linker mojety 2 comprises a poly(ethylene glycol) moiety. 1 (Currently amended) A compound having the formula: 2 Ab---G-L--T

- 3 wherein
- Ab is an antibody;
- 5 G is an intact glycosyl linking group covalently joining Ab to L:
- 6 L is a spacer moiety covalently joining G to T; and
- 7 T is a toxin, The compound according to claim 1, wherein L has the formula:
- $-L^{1}-A-L^{2}-$ 8
- 9 wherein
- L1 is a bond or a linker moiety covalently joining G S to A; 10
- 11 A is an amplifier moiety; and
- 12 L2 is a bond or a spacer moiety covalently adjoining A to T.
- 1 5. (Original) The compound according to claim 4, wherein said amplifier moiety is a polyamine 2 moiety.

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- (Original) The compound according to claim 5, wherein said polyamine moiety is a dendrimer.
- (Currently amended) The compound according to claim 4, having the formula:

3 4 wherein

- 5 PEG is a straight- or branched-chain poly(ethylene glycol);
- 6 m is an integer from 1 to 6; and
- 7 n is an integer from 1 to 1,000.
- 1 8. (Currently amended) The compound according to claim 4, having the formula:

Ab=
$$G=L^1$$
-(dendrimer)<sub>m</sub>-( $L^2$ - $T$ )<sub>n</sub>

- 4 wherein
- 5 m is an integer from 1 to 6; and
- 6 n is an integer from 1 to 1,000.
- 1 9. (Currently amended) The compound according to claim 4, having the formula:

$$Ab-G-(L^1)_{m}T_n$$

4 wherein

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- m is an integer from 1 to 6; and
- 6 n is an integer from 1 to 1,000.
- 1 10. (Currently amended) The A compound according to claim 1, having the formula:

$$Ab-G-X^1-PEG-X^2-A-X^3-(CH_2)_{\bar{a}}-Z-(CH_2)_{\bar{b}}-X^4-T$$

3 wherein

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 $\begin{array}{lll} 4 & X^1, X^2, \underline{X^2} \text{ and } X^4 \text{ are linking groups and are members selected from the group consisting} \\ 5 & \text{of O, S, NH, (CH_2)_q-NH, NH-(CH_2)_q-NH-C(O)-O, O-C(O)-NH,} \\ 6 & (CH_2)_q-NH-C(O)-O, O-C(O)-NH-(CH_2)_q, C(O)-O, O-C(O), (CH_2)_q-NH-C(O),} \\ 7 & C(O)-NH-(CH_2)_q, NH-C(S), \text{ and C(S)-NH} \\ 8 & \text{and wherein} \end{array}$ 

9 Ab is an antibody;

G is an intact glycosyl linking group covalently joining Ab to L;

1 T is a toxin;

12 A is an amplifier moiety;

Z is a bond cleaved by a metabolic/physiological process;

14 n is an integer from 1 to 1,000;

15 a is an integer from 1 to 10;

b is an integer from 1 to 10; and

q is and integer from 0 to 20.

(Currently amended) The A compound according to claim 1, having the formula:

4 wherein

at least one of R1, R2, R3, R4, R5, is:

7 wherein

Ab is an antibody;

G is an intact glycosyl linking group covalently joining Ab to L:

10 T is a toxin;

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r is an integer from 1 to 2,500; 12 13 A is an amplifier moiety; Z1 is selected from the group consisting of O, S, and NH; 14 Z2 is selected from the group consisting of NH, and NH-(CH2)a; 15 16 and X1, X2 and X3 are linking groups and are members selected from the group consisting of 17 O. S. NH. (CH2)a-NH, NH-(CH2)a, NH-C(O)-O, O-C(O)-NH, 18 (CH2)a-NH-C(O)-O, O-C(O)-NH-(CH2)a, C(O)-O, O-C(O), (CH2)a-NH-C(O), 19 20 C(O)-NH-(CH2)a, NH-C(S), and C(S)-NH 21 wherein 22 n is an integer from 1 to 1,000; and q is an integer from 0 to 20. 23

12. (Currently amended) The A compound according to claim 1, having the formula:

$$Ab^{-}G^{-}X^{1}-PEG^{-}X^{2}-A\left(NH\right)S^{-}S^{-}S^{-}X^{4}-T\right)_{n}$$

3 wherein

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4 X<sup>1</sup>, X<sup>2</sup> and X<sup>4</sup> are linking groups and are members selected from the group consisting of
5 O, S, NH, (CH<sub>2</sub>)<sub>q</sub>-NH, NH-(CH<sub>2</sub>)<sub>q</sub>, NH-C(O)-O, O-C(O)-NH,
6 (CH<sub>2</sub>)<sub>q</sub>-NH-C(O)-O, O-C(O)-NH-(CH<sub>2</sub>)<sub>q</sub>, C(O)-O, O-C(O), (CH<sub>2</sub>)<sub>q</sub>-NH-C(O),
7 C(O)-NH-(CH<sub>2</sub>)<sub>q</sub>, NH-C(S), and C(S)-NH

8 wherein

Ab is an antibody;

G is an intact glycosyl linking group covalently joining Ab to L;

11 T is a toxin;

A is an amplifier moiety;

n is an integer from 1 to 1,000; and

q is an integer from 0 to 20.

(Currently amended) The compound according to claim 12, having the formula:

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4 wherein

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5 n is an integer from 1 to 1,000.

- 1 14. (Withdrawn) A compound having the formula:
- 2 S-L-T
- 3 wherein
- 4 S is a nucleotide sugar
- 5 L is a bond or a spacer moiety covalently joining S to T; and
- 6 T is a toxin moiety.
- (Withdrawn) The compound according to claim 14, wherein said spacer moiety is a member
   selected from substituted or unsubstituted alkvl. substituted or unsubstituted heteroalkvl and substituted or
- 3 unsubstituted arvl moieties.
- (Withdrawn) The compound according to claim 15, wherein said spacer moiety comprises a
   poly(ethylene glycol) moiety.
- 1 17. (Withdrawn) The compound according to claim 14, wherein L has the formula:

3 wherein

L' is a bond or a spacer moiety covalently joining S to A:

5 A is an amplifier moiety; and

L2 is a bond or a spacer moiety covalently joining A to T.

1 18. (Withdrawn) The compound according to claim 17, wherein said amplifier moiety is a polyamine

2 moiety.

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19. (Withdrawn) The compound according to claim 18, wherein said polyamine moiety is a

2 dendrimer.

1 20. (Withdrawn) The compound according to claim 17, having the formula:

2 S-(PEG)<sub>m</sub>-(toxin)<sub>n</sub>

3 wherein

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PEG is a straight- or branched-chain poly(ethylene glycol);

5 m is an integer from 1 to 6; and

6 n is an integer from 1 to 1,000.

1 21. (Withdrawn) The compound according to claim 17, having the formula:

 $S-L^1$ -(dendrimer)<sub>m</sub>-( $L^2$ -toxin)<sub>n</sub>

3 wherein

m is an integer from 1 to 6; and

5 n is an integer from 1 to 1,000.

1 22. (Withdrawn) The compound according to claim 17, having the formula:

S-(L1)m-(toxin)n

3 wherein

4 m is an integer from 1 to 6; and

5 n is an integer from 1 to 1,000.

23. (Withdrawn) The compound according to claim 22, having the formula:

Sugar — 
$$X^1$$
 — PEG —  $X^2$  —  $X^3$  —  $(CH_2)_{\bar{a}}$  —  $Z$  —  $(CH_2)_{\bar{b}}$  —  $X^4$  —  $X^4$  —  $X^4$ 

3 wherein

4 X<sup>1</sup>, X<sup>2</sup> and X<sup>3</sup> are linking groups and are members selected from the group consisting of

 $0, S, NH(CH_2)_q-NH, NH-(CH_2)_q, NH-C(O)-O, O-C(O)-NH, (CH_2)_q-NH-C(O)-O, NH-C(O)-O, NH-C(O)-O,$ 

6 O-C(O)-NH-(CH<sub>2</sub>)<sub>q</sub>, C(O)-O, O-C(O), (CH<sub>2</sub>)<sub>q</sub>-NH-C(O), C(O)-NH-(CH<sub>2</sub>)<sub>q</sub>,

7 NH-C(S), and C(S)-NH

8 and wherein

9 A is an amplifier moiety;

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10 Z is a bond cleaved by a metabolic/physiological process;
11 n is an integer from 1 to 1,000;
12 a is an integer from 1 to 10;
13 b is an integer from 1 to 10; and
14 q is and integer from 0 to 20.

1 24. (Withdrawn) The compound according to claim 14, having the formula:

3 wherein

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1 25.

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Wherein
 X<sup>1</sup>, X<sup>2</sup> and X<sup>3</sup> are linking groups and are members selected from the group consisting of
 O, S, NH(CH<sub>2</sub>)<sub>q</sub>-NH, NH-(CH<sub>2</sub>)<sub>q</sub>, NH-C(O)-O, O-C(O)-NH, (CH<sub>2</sub>)<sub>q</sub>-NH-C(O)-O,
 O-C(O)-NH-(CH<sub>2</sub>)<sub>q</sub>, C(O)-O, O-C(O), (CH<sub>2</sub>)<sub>q</sub>-NH-C(O), C(O)-NH-(CH<sub>2</sub>)<sub>q</sub>,
 NH-C(S), and C(S)-NH
 wherein

q is an integer from 0 to 20.

(Withdrawn) The compound according to claim 24, having the formula: